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Scintillateurs de grand volume en matière plastique

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Economic - Agriculture, potatoes, cultivation

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DESCRIPTORS: *Polymerization, *Free radicals,
Reaction kinetics, *Chloroprenes.

In "liquid phase" polymerization of chloroprene under the action of benzoyl peroxide or tetralin hydroperoxide free radicals can be detected by (1) liberation of iodine from hydrogen iodide and (2) addition of iodine. The second method gives satisfactory quantitative results. An increase of the amount of free radicals in the process of polymerization of chloroprene occurs (1) as a result of increasing viscosity of the medium, hindering interaction of radicals (chain rupture) and (2) because of the branching of polymerization chains. The (Chemistry--Physical, TT, v. 6, no. 7) (over)

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[1961] 15p. 14 refs.
Order from OTS or SLA \$1.60 61-18187

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DESCRIPTORS: *Styrenes, Polymerization, Oxidation,
Free radicals.

Experiments showed that styrene oxidation comprises
two chain processes, a primary and a secondary one,
which take place with the intermediate formation of
peroxide compounds. The formation of secondary
chains is due to the decomposition of oxyperoxides
formed from the unstable peroxides of benzaldehyde and
styrene. Propagation of both chain processes occurs
through free radicals. The ratio of oxidized to poly-
merized styrene remains constant at different tempera-
tures, with admixture of benzaldehyde and benzoyl
(Chemistry--Physical, TT, v. 6, no. 7) (over)

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DESCRIPTORS: Polymerization, Reaction kinetics,
Surface properties, Molecular structure.

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